

Yuh-Lang Lin

List of Publications by Year in descending order

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76
papers

5,071
citations

257357

24
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91828

69
g-index

77
all docs

77
docs citations

77
times ranked

3742
citing authors

#	ARTICLE	IF	CITATIONS
1	Bulk Parameterization of the Snow Field in a Cloud Model. <i>Journal of Climate and Applied Meteorology</i> , 1983, 22, 1065-1092.	1.0	2,858
2	Some Common Ingredients for Heavy Orographic Rainfall. <i>Weather and Forecasting</i> , 2001, 16, 633-660.	0.5	235
3	Orographic Influences on Rainfall and Track Deflection Associated with the Passage of a Tropical Cyclone. <i>Monthly Weather Review</i> , 2002, 130, 2929-2950.	0.5	102
4	The Influence of Tropical Cyclone Size on Its Intensification. <i>Weather and Forecasting</i> , 2014, 29, 582-590.	0.5	102
5	Effects of Orography on the Generation and Propagation of Mesoscale Convective Systems in a Two-Dimensional Conditionally Unstable Flow. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 3817-3837.	0.6	94
6	Control Parameters for the Influence of a Mesoscale Mountain Range on Cyclone Track Continuity and Deflection. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 1849-1866.	0.6	94
7	The addition of heat to a stratified airstream with application to the dynamics of orographic rain. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1982, 108, 353-378.	1.0	89
8	Orographic Influence on a Drifting Cyclone. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 534-562.	0.6	75
9	Effects of Moist Froude Number and CAPE on a Conditionally Unstable Flow over a Mesoscale Mountain Ridge. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 331-350.	0.6	72
10	Flow Regimes and Transient Dynamics of Two-Dimensional Stratified Flow over an Isolated Mountain Ridge. <i>Journals of the Atmospheric Sciences</i> , 1996, 53, 139-158.	0.6	56
11	Mechanisms of Cell Regeneration, Development, and Propagation within a Two-Dimensional Multicell Storm. <i>Journals of the Atmospheric Sciences</i> , 1998, 55, 1867-1886.	0.6	54
12	Classification of Cyclone Tracks over the Apennines and the Adriatic Sea. <i>Monthly Weather Review</i> , 2008, 136, 2210-2227.	0.5	50
13	Orographic Effects on Airflow and Mesoscale Weather Systems Over Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 1993, 4, 381.	0.3	43
14	Numerical Simulations of a Gravity Wave Event over CCOPE. Part III: The Role of a Mountain's Plains Solenoid in the Generation of the Second Wave Episode. <i>Monthly Weather Review</i> , 2001, 129, 909-933.	0.5	38
15	Numerical Modeling of an Orographically Enhanced Precipitation Event Associated with Tropical Storm Rachel over Taiwan. <i>Weather and Forecasting</i> , 2003, 18, 325-344.	0.5	38
16	Two-Dimensional Response of a Stably Stratified Shear Flow to Diabatic Heating. <i>Journals of the Atmospheric Sciences</i> , 1987, 44, 1375-1393.	0.6	36
17	Origin and Propagation of a Disturbance Associated with an African Easterly Wave as a Precursor of Hurricane Alberto (2000). <i>Monthly Weather Review</i> , 2005, 133, 3276-3298.	0.5	36
18	Numerical Simulations of a Gravity Wave Event over CCOPE. Part I: The Role of Geostrophic Adjustment in Mesoscale Jetlet Formation. <i>Monthly Weather Review</i> , 1997, 125, 1185-1211.	0.5	33

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19	Dynamic Forcing and Mesoscale Variability of Heavy Precipitation Events over the Sierra Nevada Mountains. <i>Monthly Weather Review</i> , 2008, 136, 62-77.	0.5	32
20	Investigation of a heavy rainfall event over southwestern Taiwan associated with a subsynoptic cyclone during the 2003 Mei-Yu season. <i>Atmospheric Research</i> , 2010, 95, 235-254.	1.8	32
21	The Numerical Simulation of an Unbalanced Jetlet and Its Role in the Palm Sunday 1994 Tornado Outbreak in Alabama and Georgia. <i>Monthly Weather Review</i> , 1998, 126, 2133-2165.	0.5	30
22	A Numerical Modeling Study of Mesoscale Cyclogenesis to the East of the Korean Peninsula. <i>Monthly Weather Review</i> , 1998, 126, 2305-2329.	0.5	29
23	Wave Ducting in a Stratified Shear Flow over a Two-Dimensional Mountain. Part I: General Linear Criteria. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 412-436.	0.6	29
24	A Numerical Study of Flow Circulations in the Central Valley of California and Formation Mechanisms of the Fresno Eddy. <i>Monthly Weather Review</i> , 1995, 123, 3227-3239.	0.5	26
25	Numerical Simulations of an Observed Gravity Current and Gravity Waves in an Environment Characterized by Complex Stratification and Shear. <i>Journals of the Atmospheric Sciences</i> , 1996, 53, 3570-3588.	0.6	25
26	Wave Ducting in a Stratified Shear Flow over a Two-Dimensional Mountain. Part II: Implications for the Development of High-Drag States for Severe Downslope Windstorms. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 437-452.	0.6	24
27	Dynamics of Track Deflection Associated with the Passage of Tropical Cyclones over a Mesoscale Mountain. <i>Monthly Weather Review</i> , 2006, 134, 3509-3538.	0.5	24
28	The Effects of a Mountain on the Propagation of a Preexisting Convective System for Blocked and Unblocked Flow Regimes. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 2401-2421.	0.6	24
29	Orographic effects on heavy rainfall events over northeastern Taiwan during the northeasterly monsoon season. <i>Atmospheric Research</i> , 2013, 122, 310-335.	1.8	24
30	A Further Study of the Mechanisms of Cell Regeneration, Propagation, and Development within Two-Dimensional Multicell Storms. <i>Journals of the Atmospheric Sciences</i> , 2001, 58, 2957-2988.	0.6	23
31	Numerical Study of the Orographic Forcing of Heavy Precipitation during MAP IOP-2B. <i>Monthly Weather Review</i> , 2004, 132, 2184-2203.	0.5	23
32	Jetlet Formation from Diabatic Forcing with Applications to the 1994 Palm Sunday Tornado Outbreak. <i>Monthly Weather Review</i> , 1998, 126, 2061-2089.	0.5	22
33	A Terminal Area PBL Prediction System at Dallas-Fort Worth and Its Application in Simulating Diurnal PBL Jets. <i>Bulletin of the American Meteorological Society</i> , 2000, 81, 2179-2204.	1.7	22
34	Effects of Landfall Location and the Approach Angle of a Cyclone Vortex Encountering a Mesoscale Mountain Range. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 2095-2106.	0.6	22
35	Dynamics of Orographic Rain Associated with the Passage of a Tropical Cyclone over a Mesoscale Mountain. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2005, 16, 1133.	0.3	22
36	Exploring the effects of a nonhydrostatic dynamical core in high-resolution aquaplanet simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3245-3265.	1.2	21

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37	Effects of the subtropical anticyclones over North Africa and Arabian Peninsula on the African easterly jet. <i>International Journal of Climatology</i> , 2015, 35, 733-745.	1.5	20
38	Three-Dimensional Response of a Shear Flow to Elevated Heating. <i>Journals of the Atmospheric Sciences</i> , 1988, 45, 2987-3002.	0.6	19
39	Initiation of a mesoscale convective complex over the Ethiopian Highlands preceding the genesis of Hurricane Alberto (2000). <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	19
40	Effect of Ocean Spray on Vertical Momentum Transport Under High-Wind Conditions. <i>Boundary-Layer Meteorology</i> , 2011, 141, 1-20.	1.2	19
41	A nested model study of the Sahelian climate response to sea surface temperature anomalies. <i>Geophysical Research Letters</i> , 1993, 20, 2897-2900.	1.5	18
42	Effects of Critical Levels on Two-Dimensional Back-Sheared Flow over an Isolated Mountain Ridge on an fPlane. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 3286-3302.	0.6	18
43	Formation Mechanisms for Convection over the Ligurian Sea during MAP IOP-8. <i>Monthly Weather Review</i> , 2005, 133, 2227-2245.	0.5	18
44	Orographic Influence on Basic Flow and Cyclone Circulation and Their Impacts on Track Deflection of an Idealized Tropical Cyclone. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 3951-3974.	0.6	18
45	Effect of Stable Layer Formation over the Po Valley on the Development of Convection during MAP IOP-8. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 2567-2584.	0.6	17
46	Orographic effects on localized heavy rainfall events over southwestern Taiwan on 27 and 28 June 2008 during the post-Mei-Yu period. <i>Atmospheric Research</i> , 2011, 101, 595-610.	1.8	15
47	The Structure and Evolution of a Numerically Simulated High-Precipitation Supercell Thunderstorm. <i>Monthly Weather Review</i> , 1998, 126, 2090-2116.	0.5	14
48	A Study of Two-Dimensional Dry Convective Plume Modes with Variable Critical Level Height. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 448-469.	0.6	14
49	Genesis of twin tropical cyclones as revealed by a global mesoscale model: The role of mixed Rossby gravity waves. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	12
50	Variability of the subtropical highs, African easterly jet and easterly wave intensities over North Africa and Arabian Peninsula in late summer. <i>International Journal of Climatology</i> , 2015, 35, 3540-3555.	1.5	12
51	Generation and enhancement mechanisms for extreme orographic rainfall associated with Typhoon Morakot (2009) over the Central Mountain Range of Taiwan. <i>Atmospheric Research</i> , 2021, 247, 105160.	1.8	12
52	Title is missing!. <i>Environmental Fluid Mechanics</i> , 2001, 1, 29-47.	0.7	11
53	Effects of shear and sharp gradients in static stability on two-dimensional flow over an isolated mountain ridge. <i>Meteorology and Atmospheric Physics</i> , 2000, 75, 69-99.	0.9	9
54	Effects of Unsaturated Moist Froude Number and Orographic Aspect Ratio on a Conditionally Unstable Flow over a Mesoscale Mountain. <i>Journal of the Meteorological Society of Japan</i> , 2008, 86, 353-367.	0.7	9

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55	Origin of the pre-tropical storm Debby (2006) African easterly wave-mesoscale convective system. <i>Meteorology and Atmospheric Physics</i> , 2013, 120, 123-144.	0.9	9
56	Control Parameters for Track Continuity of Cyclones Passing over the South-Central Appalachian Mountains. <i>Weather and Forecasting</i> , 2015, 30, 1429-1449.	0.5	9
57	Mesoscale Wind Signatures along the Carolina Coast. <i>Monthly Weather Review</i> , 1992, 120, 2786-2797.	0.5	8
58	A study on the structure and precipitation of Morakot (2009) induced by the Central Mountain Range of Taiwan. <i>Meteorology and Atmospheric Physics</i> , 2014, 123, 115-141.	0.9	8
59	Formation and Maintenance Mechanisms of the Stable Layer over the Po Valley during MAP IOP-8. <i>Monthly Weather Review</i> , 2006, 134, 3336-3354.	0.5	7
60	Inertial and Frictional Effects on Stratified Hydrostatic Airflow past an Isolated Heat Source. <i>Journals of the Atmospheric Sciences</i> , 1989, 46, 921-936.	0.6	6
61	Numerical Modeling Studies of a Process of Lee Cyclogenesis. <i>Journals of the Atmospheric Sciences</i> , 1989, 46, 3685-3697.	0.6	6
62	Large eddy simulation of aircraft wake vortices within homogeneous turbulence - Crow instability. <i>AIAA Journal</i> , 2000, 38, 292-300.	1.5	6
63	A Theory of Cyclogenesis Forced by Diabatic Heating. Part I: A Quasi-geostrophic Approach. <i>Journals of the Atmospheric Sciences</i> , 1989, 46, 3015-3037.	0.6	5
64	Dynamical and Physical Processes Associated with Orographic Precipitation in a Conditionally Unstable Uniform Flow: Variation in Basic Wind Speed. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 449-466.	0.6	5
65	A Linear Theory for Jet Streak Formation Due to Zonal Momentum Forcing in a Stably Stratified Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 1997, 54, 908-932.	0.6	4
66	A Numerical Study of Stratified Airflow over Mesoscale Heat Sources with Application to Carolina Coastal Frontogenesis. <i>Monthly Weather Review</i> , 1996, 124, 2807-2827.	0.5	3
67	A study of track deflection associated with the landfall of Tropical Cyclone Sidr (2007) over the Bay of Bengal and Bangladesh. <i>Dynamics of Atmospheres and Oceans</i> , 2021, 93, 101207.	0.7	3
68	The Multi-Scale Dynamics Organizing a Favorable Environment for Convective Density Currents That Redirected the Yarnell Hill Fire. <i>Climate</i> , 2021, 9, 170.	1.2	2
69	Tropical Storm Kyle (2002) and cold-air damming: their interactions and impacts on heavy rainfall in the Carolinas. <i>Meteorology and Atmospheric Physics</i> , 2016, 128, 347-372.	0.9	1
70	Looping tracks associated with tropical cyclones approaching an isolated mountain. Part I: Essential parameters. <i>Meteorology and Atmospheric Physics</i> , 2018, 130, 333-348.	0.9	1
71	On the coupling of convective updrafts prior to secondary eyewall formation in Hurricane Katrina (2005). <i>Meteorology and Atmospheric Physics</i> , 2019, 131, 29-53.	0.9	1
72	Numerical study of wake vortex decay and descent in homogeneous atmospheric turbulence. <i>AIAA Journal</i> , 2000, 38, 643-656.	1.5	1

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73	Effects of Density Current, Diurnal Heating, and Local Terrain on the Mesoscale Environment Conducive to the Yarnell Hill Fire. <i>Atmosphere</i> , 2022, 13, 215.	1.0	1
74	Tracing the origins and propagation of pre-tropical storm Debby (2006) mesoscale convective systems using pattern recognition and image fusion. <i>Meteorology and Atmospheric Physics</i> , 2013, 119, 43-58.	0.9	0
75	Influences of Appalachian orography on heavy rainfall and rainfall variability associated with the passage of hurricane Isabel by ensemble simulations. <i>Meteorology and Atmospheric Physics</i> , 2019, 131, 329-350.	0.9	0
76	Orographic effects on the propagation and rainfall modification associated with the 2007â€™08 Maddenâ€™Julian oscillation (MJO) past the New Guinea Highlands. <i>Meteorology and Atmospheric Physics</i> , 2021, 133, 359-378.	0.9	0